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	Application No.	Applicant(s)	
Notice of Allowability	10/717,212	FELTER, STEFAN	
	Examiner	Art Unit	
	Dac V. Ha	2611	·
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR  1.  ☐ This communication is responsive to amendment file	TS IS (OR REMAINS) CLOSED L-85) or other appropriate comm NT RIGHTS. This application is 1.313 and MPEP 1308.	in this application. If not include nunication will be mailed in due	ded e course. THIS
<u> </u>		•	
2. $\boxtimes$ The allowed claim(s) is/are <u>8, 2-6, 9-11, 23, 18-21, 2</u>	4-27, renumbered as 1-18, respe	<u>ectively</u> .	
<ol> <li>Acknowledgment is made of a claim for foreign prio</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents</li> </ol>	s have been received.	· · · · · · · · · · · · · · · · · · ·	
2. Certified copies of the priority documents	• •		
3. Copies of the certified copies of the prior	•	ed in this national stage applic	ation from the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:	•		
Applicant has THREE MONTHS FROM THE "MAILING D noted below. Failure to timely comply will result in ABANI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the re	equirements
4. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which			NOTICE OF
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets (a) including changes required by the Notice of Draff 1) hereto or 2 to Paper No./Mail Date (b) including changes required by the attached Exampaper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37)</li> </ol>	tsperson's Patent Drawing Review	or in the Office action of the drawings in the front (not the	ne back) of
each sheet. Replacement sheet(s) should be labeled as su  6. DEPOSIT OF and/or INFORMATION about the	•	• •	Note the
attached Examiner's comment regarding REQUIREM			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of	Informal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-		Summary (PTO-413),	•
3. ⊠ Information Disclosure Statements (PTO/SB/08),	Paper No	o./Mail Date 's Amendment/Comment	
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deport of Biological Material		's Statement of Reasons for Al	llowance
	9. 🗌 Other	·	
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## Allowable Subject Matter

- 1. Claims 2-6, 8-11, 18-21, 23-27 are allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter:

Applicant has cancelled claims 1, 7, 12-17, 22, 28-32 and amended claims 2-6, 8-11, 18-21, 23-26 in accordance with the office action dated 03/30/07. Upon further consideration and comparison with prior art of record (closest reference, Jitsukawa et al. US 2003/0012267), claims 2-6, 8-11, 18-21, 23-26 are allowed. Particularly, prior art of record, taking individually or collectively, fails to fairly teach method and apparatus for joint searching and channel estimation, as claimed, including "wherein in performing the calculation the correlator is configured to considers plural possible frequencies of complex values along the antenna index and plural possible frequencies of complex values along the pilot set index, plural possible frequencies of complex values along the antenna index corresponding to plural possible directions of arrival and being represented by a frequency index nl, the plural possible frequencies of complex values along the antenna index corresponding to plural possible doppler shifts and being represented by a frequency index n2, and wherein for each combination of plural possible direction of arrival frequencies, plural possible doppler frequencies, and plural time indexes, the correlator is configured to calculates:

$$Y(nI,n2,t) = FFT(nI,n2,X(:,:,t))$$

wherein t is the sampling window time index; X(:,t) is the complex antenna matrix

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(with the colon ":" representing all antenna indexes for one sampling window time index)" in independent claims 8 and 23 (claims 2-6, 9-11, 18-21, 24-26 depend therefrom. Thus, claims 2-6, 8-11, 18-21, 23-27 are found to be novel and unobvious over prior art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040. The examiner can normally be reached on 4/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Payne can be reached on 571-272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dac V. Ha

Primary Examiner

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